

Abstract

Arrangement of a burner (2) and a heat exchanger (1), the heat exchanger (1) including a plurality of heat exchange elements (3) interconnected to each other with intermediate gaps, the heat exchanger (1) being arranged with an inlet (4') and an outlet (5'), the burner (2) being connected at the inlet (4') to the heat exchanger (1) for providing energy to the heat exchanger (1) by burning a fuel gas, the heat exchanger (1) being arranged, in use, for heat transfer from an outer surface of the heat exchange elements (3) to process air as a secondary gas, the burner (2) being arranged to burn the fuel gas inside the heat exchanger (1), wherein the heat exchanger (1) is constructed from a high temperature material to allow, in use, heat transfer to the secondary gas by radiation of the heat exchange elements (3), the radiation being in a visible range of the spectrum, the heat exchanger having a surface temperature in the range of 450 - 1000°C.

15 [Figure 2]